

# RXR $\alpha$ / $\beta$ / $\gamma$ ( $\Delta$ N 197): sc-774

## BACKGROUND

Two families of retinoid receptors, RARs and RXRs, have been identified. Retinoic acid receptors (RARs) include RAR $\alpha$ , RAR $\beta$  and RAR $\gamma$ , each of which have a high affinity for all *trans*-retinoic acids and belong to the same class of nuclear transcription factors as thyroid hormone receptors, vitamin D<sub>3</sub> receptor and ecdysone receptor. The ligand-binding domains of the RARs are highly conserved and RAR isoforms are expressed in distinct patterns throughout development and in the mature organism. Members of the retinoid X receptor (RXR) family, RXR $\alpha$ , RXR $\beta$  and RXR $\gamma$ , are activated by 9-*cis*-RA, a stereo- and photo-isomer of all *trans*-RA that is expressed *in vivo* in both liver and kidney and may represent a widely used hormone. As is true for the RAR subfamily, the RXR receptors are closely related to each other both in their DNA-binding and ligand-binding domains and are encoded by separate genes at distinct chromosomal loci.

## SOURCE

RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197) is a rabbit polyclonal antibody raised against amino acids 198-462 of RXR $\alpha$  of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-774 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197) is recommended for detection of RXR $\alpha$ , RXR $\beta$  and RXR $\gamma$  of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197) is also recommended for detection of RXR $\alpha$ , RXR $\beta$  and RXR $\gamma$  in additional species, including equine, canine, bovine and porcine.

RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RXR $\alpha$ / $\beta$ / $\gamma$ : 50-54 kDa.

Positive Controls: RXR $\alpha$  (h): 293T Lysate: sc-111936 or HeLa whole cell lysate: sc-2200.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

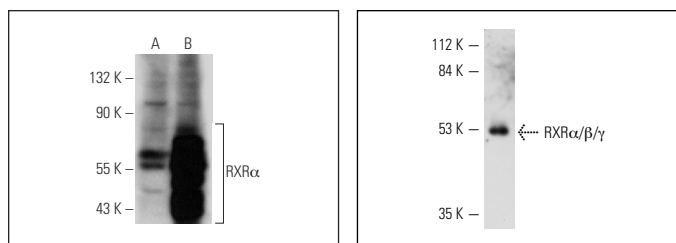
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197): sc-774. Western blot analysis of RXR $\alpha$  expression in non-transfected: sc-117752 (A) and human RXR $\alpha$  transfected: sc-111936 (B) 293T whole cell lysates.

RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197): sc-774. Western blot analysis of 10 ng of purified human RXR $\beta$ .

## SELECT PRODUCT CITATIONS

- Dahl, R., et al. 1998. Transformation of hematopoietic cells by the Ski oncoprotein involves repression of retinoic acid receptor signaling. *Proc. Natl. Acad. Sci. USA* 95: 11187-11192.
- Gopal-Srivastava, R., et al. 1998. Involvement of retinoic acid/retinoid receptors in the regulation of murine  $\alpha$ B-crystallin/small heat shock protein gene expression in the lens. *J. Biol. Chem.* 273: 17954-17961.
- Hashimoto, K., et al. 2013. Human stearyl-CoA desaturase 1 (SCD-1) gene expression is negatively regulated by thyroid hormone without direct binding of thyroid hormone receptor to the gene promoter. *Endocrinology* 154: 537-549.
- Stockert, J., et al. 2013. Regulation of TAK1/TAB1-mediated IL-1 $\beta$  signaling by cytoplasmic PPAR $\beta$ / $\delta$ . *PLoS ONE* 8: e63011.
- Gely-Pernot, A., et al. 2015. Retinoic acid receptors control spermatogonia cell-fate and induce expression of the SALL4A transcription factor. *PLoS Genet.* 11: e1005501.
- González-Duarte, R.J., et al. 2015. The expression of RNA helicase DDX5 is transcriptionally upregulated by calcitriol through a vitamin D response element in the proximal promoter in SiHa cervical cells. *Mol. Cell. Biochem.* 410: 65-73.
- Cázares-Ordoñez, V., et al. 2015. A *cis*-acting element in the promoter of human ether à go-go 1 potassium channel gene mediates repression by calcitriol in human cervical cancer cells. *Biochem. Cell Biol.* 93: 94-101.
- Wnuk, A., et al. 2016. The crucial involvement of retinoid X receptors in DDE neurotoxicity. *Neurotox. Res.* 29: 155-172.

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Try RXR $\gamma$  (A-2): sc-365252 or RXR $\gamma$  (G-6): sc-514134, our highly recommended monoclonal alternatives to RXR $\alpha$ / $\beta$ / $\gamma$  ( $\Delta$ N 197).